We're Collaborating With CERN openlab For Hybrid Cloud-Powered Research

Filed in Partner & Customer Updates by Jim Curry | July 1, 2013 8:00 am

The researchers at the European Organization for Nuclear Research (CERN)[1] are on an amazing mission. They operate the world's largest particle physics laboratory and their research uncovers the mysteries of universe. Coincidentally, CERN is also the birthplace of the world wide web as we know it.

Switzerland-based CERN is also a member of the OpenStack community and a supporter of open source technologies and the open cloud. And today, we've formed a new contributor agreement with CERN openlab[2] through which Rackspace will deliver a hybrid cloud[3] solution featuring OpenStack-powered public and private clouds that will help CERN advance its important research.

This is awesome because it gives us the opportunity to work closely with CERN to help fuel new, potentially ground-breaking research and particle physics innovation while also extending the reach of the Rackspace Hybrid Cloud.

Through our relationship, we'll work with CERN on a number of initiatives, first of which is to create a reference architecture and operational model for federated cloud services between Rackspace Private Cloud[4], Rackspace Public Cloud and CERN's own OpenStack-powered clouds.

Here's what Tim Bell, infrastructure manager in CERN's IT department said: "We definitely see great value in open source technologies like OpenStack. They foster continuous technological improvements through community contributions, while also giving us the ability to quickly address challenges, such as massive scaling, by leveraging the work of others." Bell added that CERN just celebrated the 20th anniversary of its decision to make its world wide web software freely available.

The scientists at CERN study the building blocks of matter, particles, to better understand the universe and its origins. It already uses OpenStack software to manage resources across its two data centers that power the Large Hadron Collider[5] (below), the world's largest and most powerful particle accelerator, which produces more than 25 petabytes of data annually.
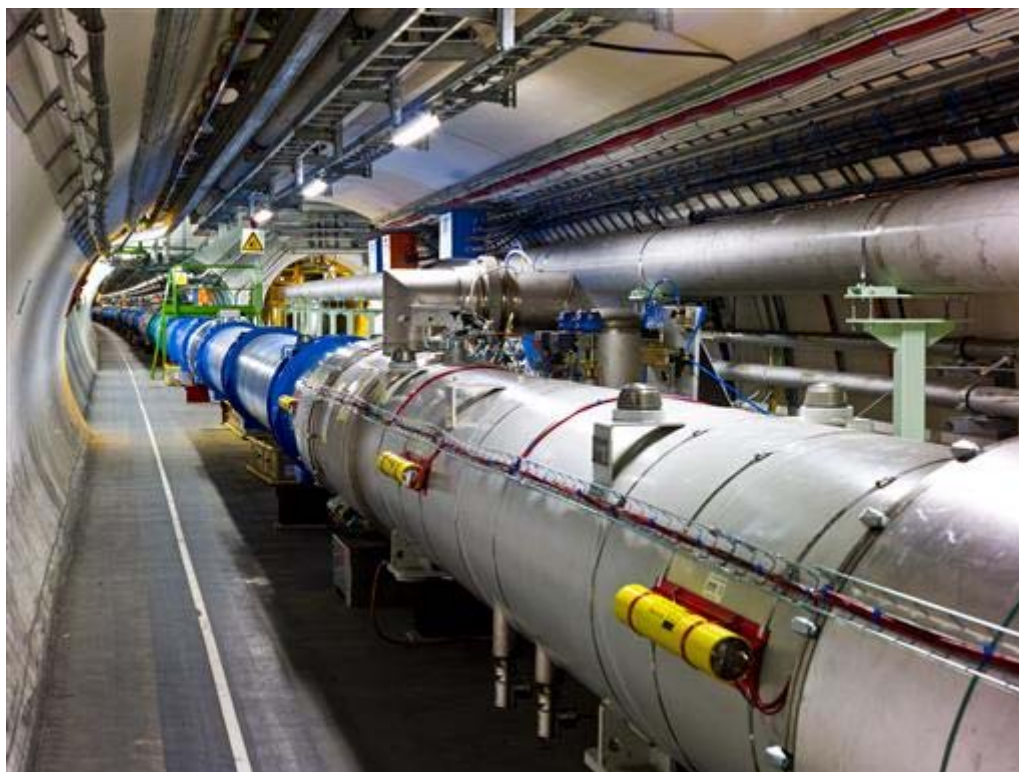
This new relationship is an extension of our previous work with CERN, through which we delivered a solution that allowed CERN to burst workloads into our public cloud. With the new agreement, Rackspace Private Cloud will be deployed onto servers CERN uses for production physics experiments. Together, Rackspace and CERN openlab will test and ensure seamless federation between the public and private cloud platforms, showcasing the true value of the hybrid cloud[6].

To see more on how CERN and Rackspace work together, check out this video:

And to see more about how the open cloud powers academic and scientific research[7], take a look at these videos from the Massachusetts Institute of Technology (MIT) and the University of Texas at San Antonio (UTSA):

Endnotes:

1. European Organization for Nuclear Research (CERN): http://home.web.cern.ch/
2. CERN openlab: http://openlab.web.cern.ch/
3. hybrid cloud: http://www.rackspace.com/cloud/hybrid/
4. Rackspace Private Cloud: http://www.rackspace.com/cloud/private/
5. Large Hadron Collider: http://home.web.cern.ch/about/accelerators/large-hadron-collider
6. the true value of the hybrid cloud: http://www.rackspace.com/blog/no-tradeoffs-the-power-of-a-true-hybrid-cloud/
7. the open cloud powers academic and scientific research: http://www.rackspace.com/blog/how-the-open-cloud-powers-academic-and-scientific-research/

Source URL: http://www.rackspace.com/blog/were-collaborating-with-cern-openlab-for-hybrid-cloud-powered-research/